Exhibit 4

<u>U.S. Patent No. 7,784,058 vs. HPE</u>

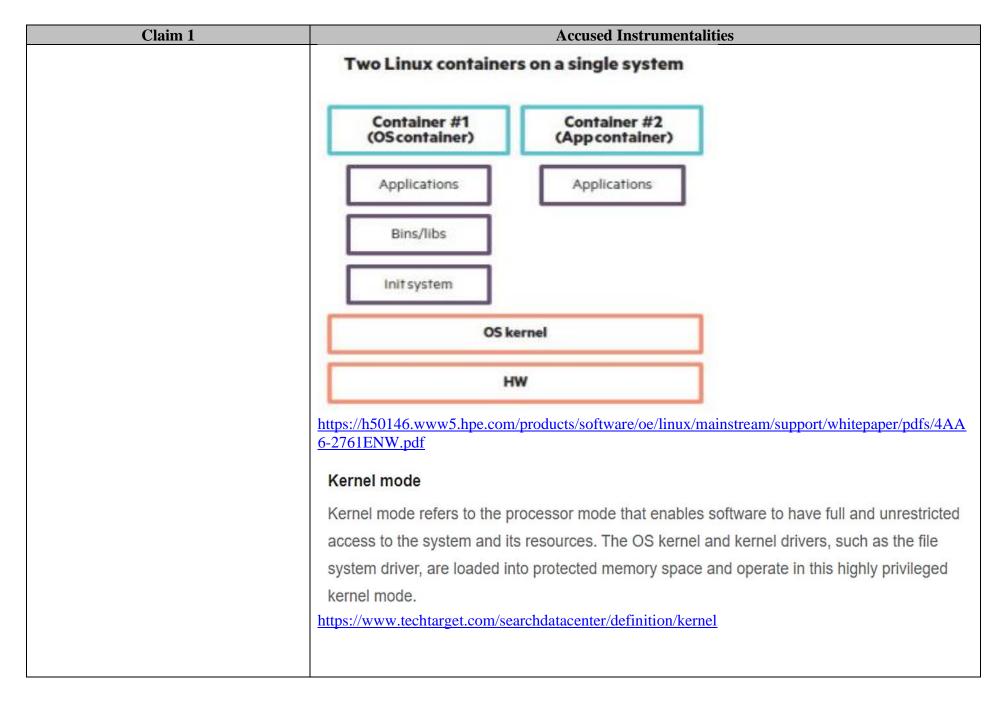
Accused Instrumentalities: HPE's Ezmeral Runtime Enterprise, and all versions and variations thereof since the issuance of the asserted patent.

Claim 1

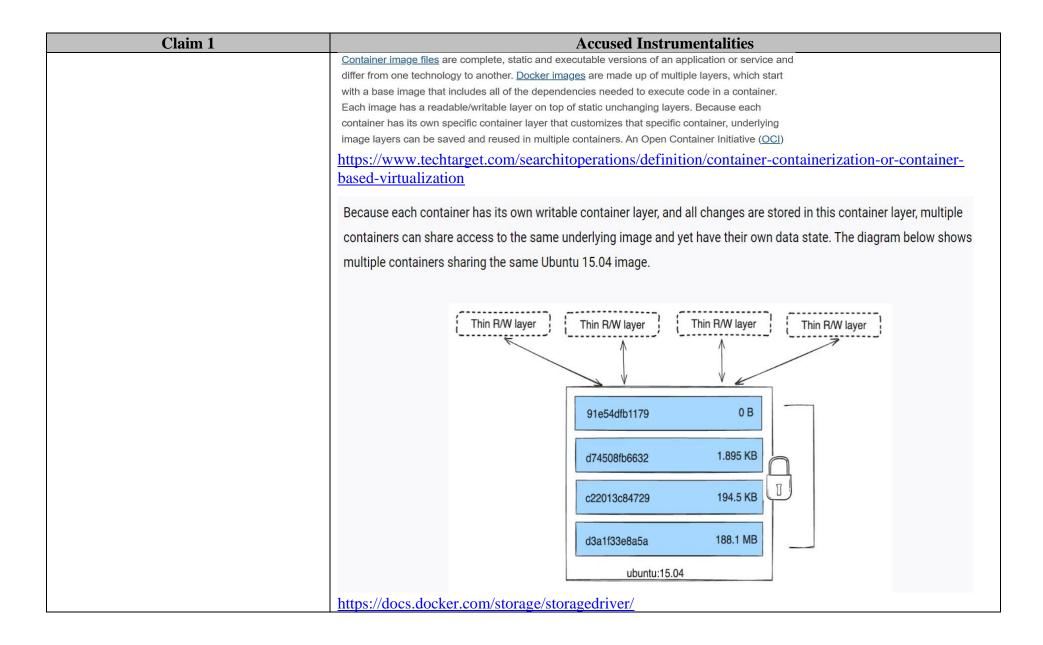
| Claim 1 | Accused Instrumentalities |
|-----------------------------------|--|
| [1pre] 1. A computing system for | To the extent the preamble is limiting, each Accused Instrumentality comprises or constitutes a |
| executing a plurality of software | computing system for executing a plurality of software applications as claimed. |
| applications comprising: | See claim limitations below. |
| | See also, e.g.: |
| | HPE Ezmeral Runtime Enterprise is a unified platform built on open-source Kubernetes and designed for both cloud-native applications and non-cloud-native applications running on any infrastructure; whether on-premises, in multiple public clouds, in a hybrid model, or at the edge. |
| | https://support.hpe.com/hpesc/public/docDisplay?docId=a00ecp54hen_us&page=home/about-hpeezmeral-container-pl/Welcome.html |
| | Containers provide the core runtime abstraction for the user applications. These containers provide isolation between user applications and the rest of the infrastructure. The containers are based on Docker. |
| | https://support.hpe.com/hpesc/public/docDisplay?docId=a00097165en_us&docLocale=en_US&page =GUID-6B6676DB-AF5F-4555-B6AB-D2C11A89F320.html |

| Claim 1 | Accused Instrumentalities | |
|----------------------|---|--|
| | Two Linux containers on a single system | |
| | Container #1 Container #2 (App container) | |
| | Applications Applications | |
| | Bins/libs | |
| | Initsystem | |
| | OS kernel | |
| | HW | |
| | https://h50146.www5.hpe.com/products/software/oe/linux/mainstream/support/whitepaper/pdfs/4AA 6-2761ENW.pdf | |
| [1a] a) a processor; | Each Accused Instrumentality comprises a processor. | |
| | See, e.g.: | |
| | Each license allows the customer to deploy the HPE Ezmeral Container Platform on one Core and 2 terabytes of Storage Capacity. The customer must purchase more licenses if they exceed the allowable amount of Cores or Storage Capacity. As used in this Agreement, Core means a part of a CPU that executes a single stream of compiled instruction code. Each physical processor contains smaller processing units called physical CPU cores. Some processors have two cores, some https://support.hpe.com/hpesc/public/docDisplay?docId=a00ecp54hen_us&docLocale=en_US&page=home/about-hpe-ezmeral-container-pl/GEN_End_User_Software_Agreement.html | |

| Claim 1 | Accused Instrumentalities |
|---|--|
| [1b] b) an operating system having an operating system kernel having OS critical system elements (OSCSEs) for running in kernel mode using said processor; and, | Each Accused Instrumentality comprises an operating system having an operating system kernel having OS critical system elements (OSCSEs) for running in kernel mode using said processor. See, e.g.: |
| | Containers provide the core runtime abstraction for the user applications. These containers provide isolation between user applications and the rest of the infrastructure. The containers are based on Docker. |
| | https://support.hpe.com/hpesc/public/docDisplay?docId=a00097165en_us&docLocale=en_US&page =GUID-6B6676DB-AF5F-4555-B6AB-D2C11A89F320.html |
| | Each license allows the customer to deploy the HPE Ezmeral Container Platform on one Core and 2 terabytes of Storage |
| | Capacity. The customer must purchase more licenses if they exceed the allowable amount of Cores or Storage Capacity. |
| | As used in this Agreement, Core means a part of a CPU that executes a single stream of compiled instruction code. Each |
| | physical processor contains smaller processing units called physical CPU cores. Some processors have two cores, some https://support.hpe.com/hpesc/public/docDisplay?docId=a00ecp54hen_us&docLocale=en_US&page=home/about-hpe-ezmeral-container-pl/GEN_End_User_Software_Agreement.html |
| | HPE Ezmeral Runtime Enterprise supports the following operating systems: |
| | HPE Ezmeral CentOS Support RHEL Support SUSE Support Runtime Enterprise Version |
| | https://support.hpe.com/hpesc/public/docDisplay?docId=a00ecp54hen_us&page=home/about-hpeezmeral-container-pl/GEN_OS_Support.html |



| Claim 1 | Accused Instrumentalities |
|--|---|
| [1c] c) a shared library having shared library critical system elements (SLCSEs) stored therein for use by the | Each Accused Instrumentality comprises a shared library having shared library critical system elements (SLCSEs) stored therein for use by the plurality of software applications in user mode. |
| plurality of software applications in user | See, e.g.: |
| mode and | Containers provide the core runtime abstraction for the user applications. These containers provide isolation between user applications and the rest of the infrastructure. The containers are based on Docker. |
| | https://support.hpe.com/hpesc/public/docDisplay?docId=a00097165en_us&docLocale=en_US&page =GUID-6B6676DB-AF5F-4555-B6AB-D2C11A89F320.html |
| | The container starts with a base image, and the microservice is packaged into a container |
| | image and then deployed through the container platform. The container platform is based on |
| | https://www.hpe.com/us/en/what-is/container-platform.html |
| | Container images |
| | A container image is a ready-to-run software package containing |
| | everything needed to run an application: the code and any runtime it requires, application and system libraries, and default values for any essential settings. |
| | https://kubernetes.io/docs/concepts/containers/ |
| | The idea of containerization is to isolate and package the application with all the dependencies in a container, |
| | https://community.hpe.com/t5/hpe-blog-uk-ireland-middle-east/containerization-the-next-generation-of-virtualization/ba-p/7154442 |
| | |

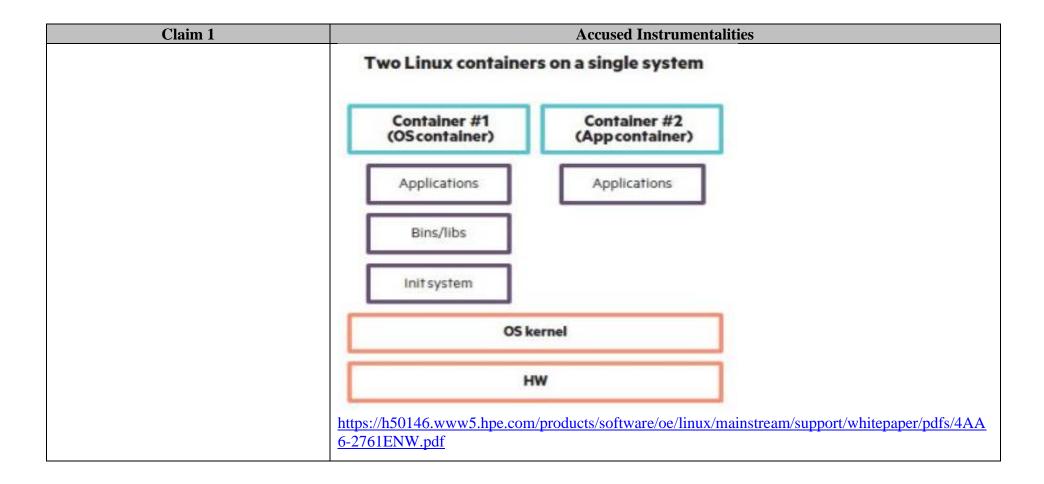


| Claim 1 | | Accused Instrument | alities |
|--|---|--|---|
| | Two Linux container | rs on a single system | |
| | Container #1 (OScontainer) | Container #2 (App container) | |
| | Applications | Applications | |
| | Bins/libs | | |
| | Initsystem | | |
| | OS k | ernel | |
| | н | w | |
| | https://h50146.www5.hpe.com 6-2761ENW.pdf | /products/software/oe/linux/ | /mainstream/support/whitepaper/pdfs/4AA |
| [1d] i) wherein some of the SLCSEs stored in the shared library are functional replicas of OSCSEs and are accessible to some of the plurality of software applications and when one of the SLCSEs is accessed by one or more of the plurality of software applications it forms a part of the one or more of the plurality of software applications, | replicas of OSCSEs and are ac | cessible to some of the plura one or more of the plurality of | red in the shared library are functional ality of software applications and when one of software applications it forms a part of |
| | components for an application tools, and dependencies (i.e., S Debian and Ubuntu, including container image is based on a s | to run, including the applica SLCSEs). The images are basessential system elements (in specific base image, which can libraries or shared library of | ed unit that encompasses all the necessary ation code, runtime environment, system sed on existing Linux distributions, such as e., functional replicas of OSCSEs). Each ontains the application code, and critical system elements (SLCSEs). When of that container image. |

| Claim 1 | Accused Instrumentalities |
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| | See, e.g.: |
| | Hewlett Packard Enterprise provides publicly available base 0S images for use in containerized clusters. These images extend the base 0S images available from Docker hub by adding several packages that permit HPE Ezmeral Runtime Enterprise to manage container orchestration seamlessly and to improve the security of the container. https://docs.ezmeral.hpe.com/runtime-enterprise/55/app-workbench-5-1/custom-base-images/AWB51_About_Custom_Base_Images.html |
| | The idea of containerization is to isolate and package the application with all the dependencies in a container, |
| | https://community.hpe.com/t5/hpe-blog-uk-ireland-middle-east/containerization-the-next-generation-of-virtualization/ba-p/7154442 |
| | Container images |
| | A container image is a ready-to-run software package containing everything needed to run an application: the code and any runtime it requires, application and system libraries, and default values for any essential settings. |
| | https://kubernetes.io/docs/concepts/containers/ |
| | Docker is used to create, run and deploy applications in containers. A Docker image contains application code, libraries, tools, dependencies and other files needed to make an application run. When a user runs an image, it can become one or many instances of a container. ttps://www.techtarget.com/searchitoperations/definition/Docker-image |

| Claim 1 | Accused Instrumentalities | |
|---|--|--|
| | Because each container has its own writable container layer, and all changes are stored in this container layer, multiple containers can share access to the same underlying image and yet have their own data state. The diagram below shows multiple containers sharing the same Ubuntu 15.04 image. | |
| | Thin R/W layer Thin R/W layer Thin R/W layer 91e54dfb1179 0 B d74508fb6632 1.895 KB c22013c84729 194.5 KB d3a1f33e8a5a 188.1 MB ubuntu:15.04 | |
| | https://docs.docker.com/storage/storagedriver/ | |
| | Containers only have access to resources that are defined in the image, https://www.hpe.com/us/en/what-is/docker.html | |
| [1e] ii) wherein an instance of a SLCSE provided to at least a first of the plurality of software applications from the shared library is run in a context of said at least first of the plurality of software applications without being shared with other of the plurality of software applications and where at least a second of the plurality of software applications | In each Accused Instrumentality, an instance of a SLCSE provided to at least a first of the plurality of software applications from the shared library is run in a context of said at least first of the plurality of software applications without being shared with other of the plurality of software applications and where at least a second of the plurality of software applications running under the operating system have use of a unique instance of a corresponding critical system element for performing same function. When a Docker image is used to create a container, it creates a separate and isolated instance of a runtime environment which is independent of other containers running on the same host. Each | |

| Claim 1 | Accused Instrumentalities |
|---|---|
| use of a unique instance of a corresponding critical system element for performing same function, and | container has its own instance of base images and its own data. The containers run in isolation, ensuring that the SLCSEs stored in the shared library are accessible to the software applications running in their respective containers. The docker image includes essential system files, libraries, and dependencies required to run the software application within the container. The Docker containers can share common dependencies and components using layered images. This means that multiple containers utilize the same base image to create an instance. When an instance of SLCSE is provided from the base image (i.e., from the shared library) to an individual container including application software, it operates in isolation and runs its own instance of the software application without sharing resources or critical system elements with other containers. This ensures that each container has its own isolated context. Docker containers can share common dependencies and components using layered images. This means that multiple containers can utilize the same base image. Therefore, each container, containing the application software running under the operating system, utilizes a unique instance of the corresponding critical system element to execute the respective application software for performing a same or a different function. See, e.g.: Containers provide the core runtime abstraction for the user applications. These containers provide isolation between user applications and the rest of the infrastructure. The containers are based on Docker. https://support.hpe.com/hpesc/public/docDisplay?docId=a00097165en_us&docLocale=en_US&page=GUID-6B6676DB-AF5F-4555-B6AB-D2C11A89F320.html |



| Claim 1 | Accused Instrumentalities |
|---|---|
| | Because each container has its own writable container layer, and all changes are stored in this container layer, multiple |
| | containers can share access to the same underlying image and yet have their own data state. The diagram below shows |
| | multiple containers sharing the same Ubuntu 15.04 image. |
| | Thin RW layer Thin RW layer Thin RW layer Thin RW layer 91e54dfb1179 0 B d74508fb6632 1.895 KB c22013c84729 194.5 KB d3a1f33e8a5a 188.1 MB ubuntu:15.04 |
| | https://docs.docker.com/storage/storagedriver/ |
| | Docker is used to create, run and deploy applications in containers. A Docker image contains |
| | application code, libraries, tools, dependencies and other files needed to make an |
| | application run. When a user runs an image, it can become one or many instances of a |
| | container. |
| | https://www.techtarget.com/searchitoperations/definition/Docker-image |
| [1f] iii) wherein a SLCSE related to a predetermined function is provided to the first of the plurality of software applications for running a first instance of the SLCSE, and wherein a SLCSE for | In each Accused Instrumentality, a SLCSE related to a predetermined function is provided to the first of the plurality of software applications for running a first instance of the SLCSE, and wherein a SLCSE for performing a same function is provided to the second of the plurality of software applications for running a second instance of the SLCSE simultaneously. For example, In Docker, each container operates independently, and a Docker base image includes |
| performing a same function is provided to the second of the plurality of software applications for running a second instance of the SLCSE simultaneously. | essential system files, libraries, and dependencies (i.e., SLCSEs) required to run the software application within the container. Based on information and belief, each element, such as system files, libraries, and dependencies (i.e., SLCSE) is associated with an execution of a predetermined function related to the application. When a Docker image is used to create a container in ECS, an instance of |

| Claim 1 | Accused Instrumentalities |
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| | the SLCSE is provided to a software application. Therefore, different instances of the SLCSE are provided to different applications for performing either a same or a different function, simultaneously. |
| | See, e.g.: |
| | Docker is used to create, run and deploy applications in containers. A Docker image contains |
| | application code, libraries, tools, dependencies and other files needed to make an |
| | application run. When a user runs an image, it can become one or many instances of a |
| | container. |
| | https://www.techtarget.com/searchitoperations/definition/Docker-image, Last accessed on June 14, 2023 |
| | A container is a runnable instance of an image. You can create, start, stop, move, or delete |
| | a container using the Docker API or CLI. You can connect a container to one or more |
| | networks, attach storage to it, or even create a new image based on its current state. |
| | https://docs.docker.com/get-started/overview/ |
| | Because each container has its own writable container layer, and all changes are stored in this container layer, multiple |
| | containers can share access to the same underlying image and yet have their own data state. The diagram below shows multiple containers sharing the same Ubuntu 15.04 image. |
| | Thin RW layer Thin RW layer Thin RW layer 91e54dfb1179 |
| | ubuntu:15.04 |
| | https://docs.docker.com/storage/storagedriver/ |